Abstract

This invention provides an apparatus and method for emergency administration or self-administration of thrombolytic therapy in early stage of a heart attack. The apparatus includes a needle injector for making a venipuncture, a battery operated micro cooler for maintaining low temperature environment for vials with lyophilized thrombolytic and adjuvant drugs, a container with a diluent for reconstitution of the lyophilized drugs, a programmable infusion pump, and a microprocessor for controlling the process of infusion and recording the data. As the system is activated, said container becomes fluidly communicable with the infusion pump and vials with drugs in the cooler. Designed for autonomous execution of several schedules of infusion, it also can be controlled remotely by a qualified operator via an Internet interface.